

(12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(19) World Intellectual Property  
Organization  
International Bureau



(43) International Publication Date  
7 April 2005 (07.04.2005)

PCT

(10) International Publication Number  
**WO 2005/031224 A2**

(51) International Patent Classification<sup>7</sup>:

F25D

(81) Designated States (unless otherwise indicated, for every kind of national protection available): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SB, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.

(21) International Application Number:

PCT/US2004/031438

(22) International Filing Date:

27 September 2004 (27.09.2004)

(25) Filing Language:

English

(26) Publication Language:

English

(30) Priority Data:

60/506,532 26 September 2003 (26.09.2003) US

(71) Applicant (for all designated States except US): SSW HOLDING COMPANY, INC. [US/US]; 3501 South Tulsa, Fort Smiths, AR 72903 (US).

(72) Inventor; and

(75) Inventor/Applicant (for US only): MCMILLIN, Matthew, J. [US/US]; 4216 Highland Oaks Drive, New Albany, IN 47150 (US).

(74) Agent: LOCKHART, Thomas, L.; Varnum, Riddering, Schmidt & Howlett LLP, P.O. Box 352, Grand Rapids, MI 495080352 (US).

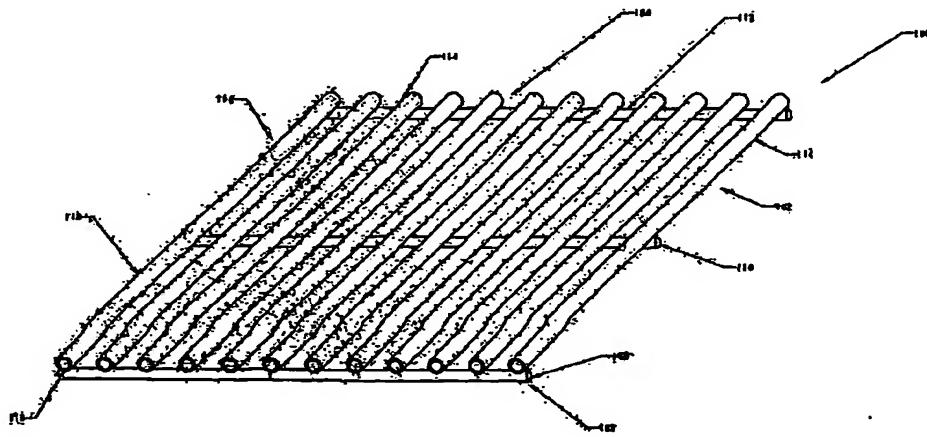
(84) Designated States (unless otherwise indicated, for every kind of regional protection available): ARIPO (BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SB, SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

Published:

— without international search report and to be republished upon receipt of that report

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

(54) Title: COOLING TUBES FOR SHELVING



WO 2005/031224 A2

(57) Abstract: A cooling tube system (100) is formed as part of a refrigerator shelf (102). The shelf (102) includes a frame (104) having a series of frame wires (106). Secured above and supported on the frame wires (106) are a set of cooling tubes (114). A fan (132) directs cool air generated from cooling air equipment (130) through vents (136) into the refrigerator interior (129). The air flows through rear hollow ends (140) of the cooling tubes (114). The cooling air (138) is directed toward the front (124) of the refrigerator (120).